

Photometric Report

ELP Manet 8f - High Power Mode 3000K – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

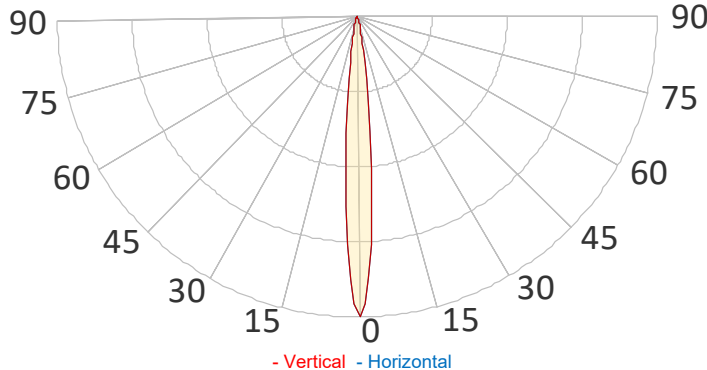
GENERAL SPECIFICATIONS

Total Fixture Output:	4400 lm
Light Engine Output:	12500 lm
Efficacy:	11.9 lm/W
Lens Option:	N/A
Zoom Range:	9 - 50°
CRI:	87 (+/-1)
CQS:	87 (+/-1)
TM-30 Rf:	86 (+/-1)
TM-30 Rg:	107 (+/-1)
TLCI:	75 (+/-1)
Color Temperature:	3000K (+/-250K)



SAMPLE MEASUREMENT

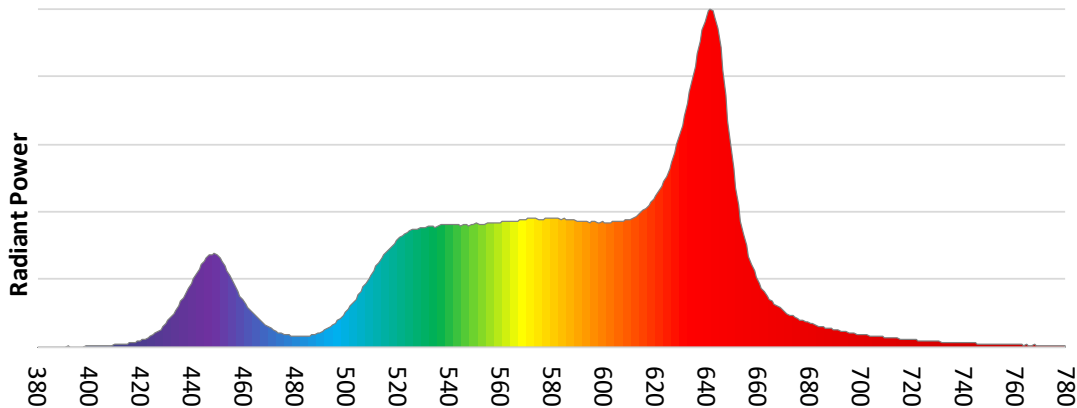
POLAR PLOT



Catalog Number:	MAR-90800021
Measured Output:	4439 lm
Measured Peak:	87302 cd
Consumed Power:	370 W
Efficacy:	12 lm/W
Beam Angle (50%):	10.1°
Field Angle (10%):	19.5°
Cut-off Angle (3%):	33.2°

Measurement Condition:	
Ambient Temperature:	25° +/- 5° C10.1
AC Supply:	230V/50Hz
Fan Mode:	Regulated High
Fixture Warm-up Time:	30 minutes

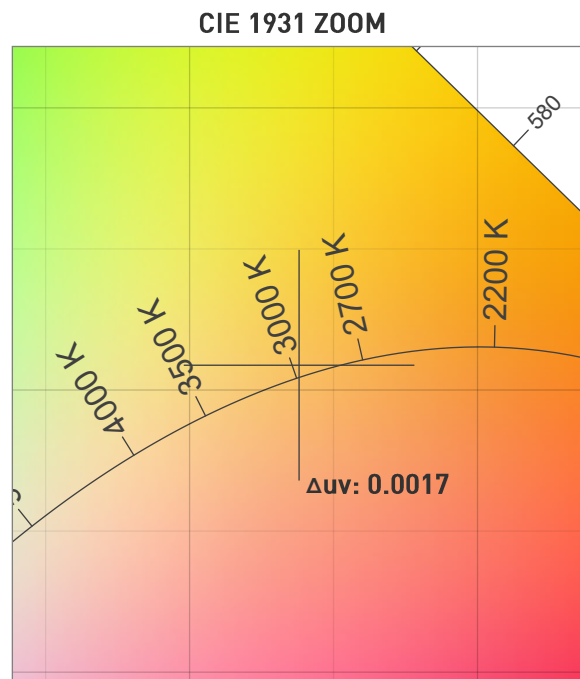
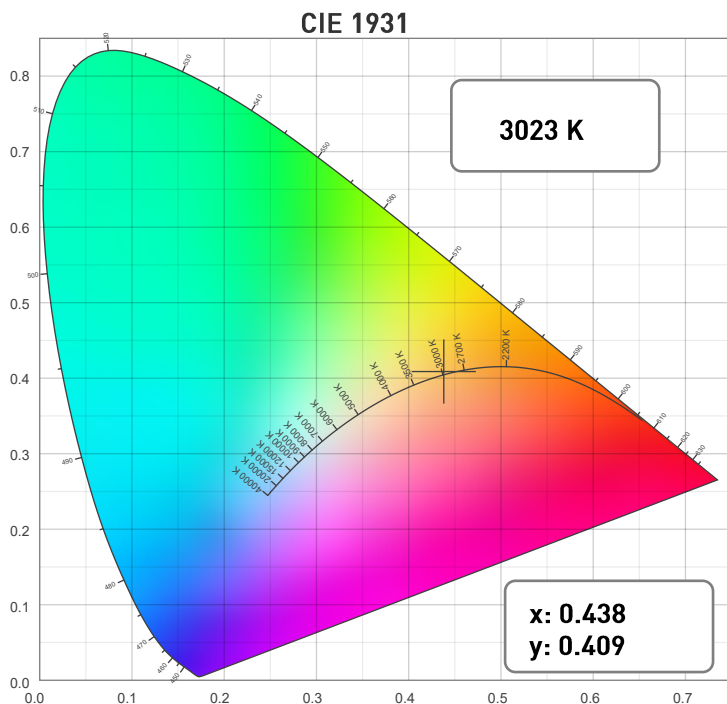
SPECTRAL DISTRIBUTION



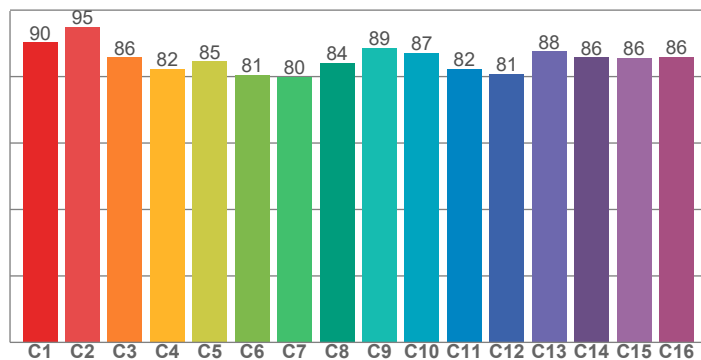
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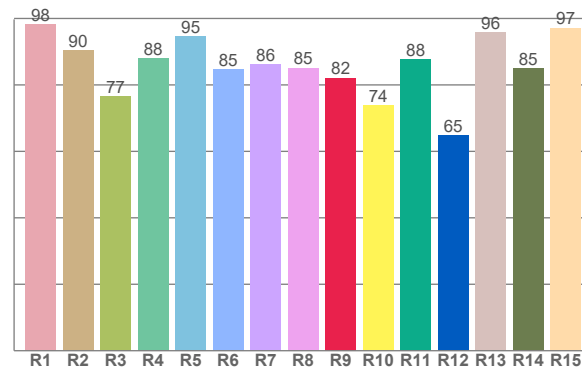
CHROMATICITY



TM30: 85.9



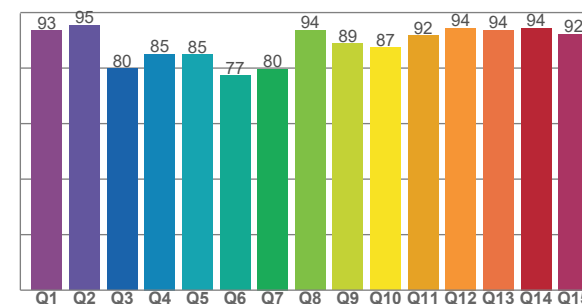
CRI: 88.0 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
3023 K	88.0	82.1	85.9	108.3

CQS: 87.1



Television Lighting Consistency Index	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964	Color Deviation from Black Body
TLCI	CQS	x	y	u	v	Δuv
74	87.1	0.438	0.409	0.249	0.349	0.0017

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TM30

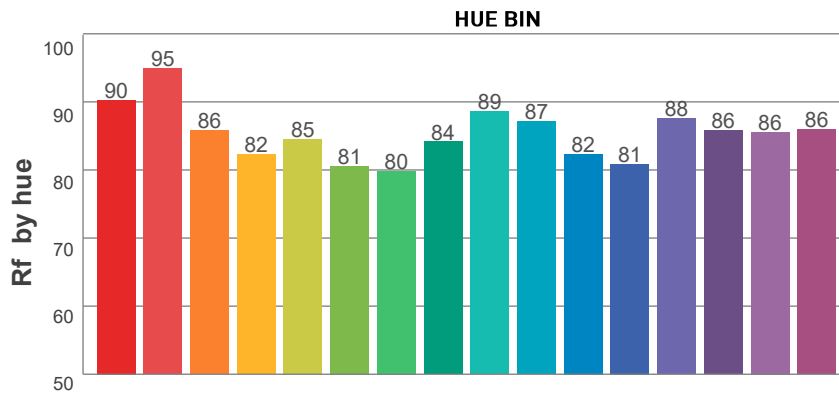
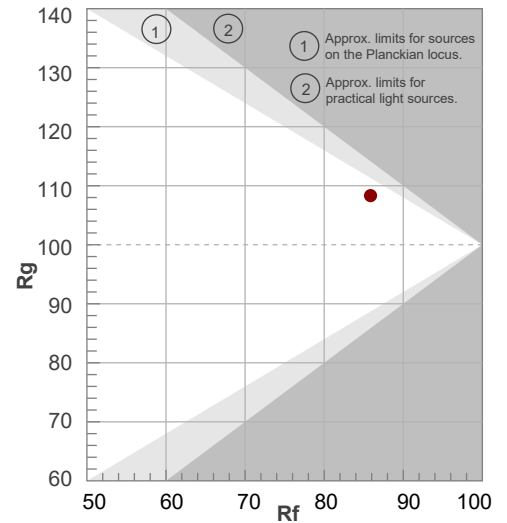
Rf 85.9

Fidelity index Rf

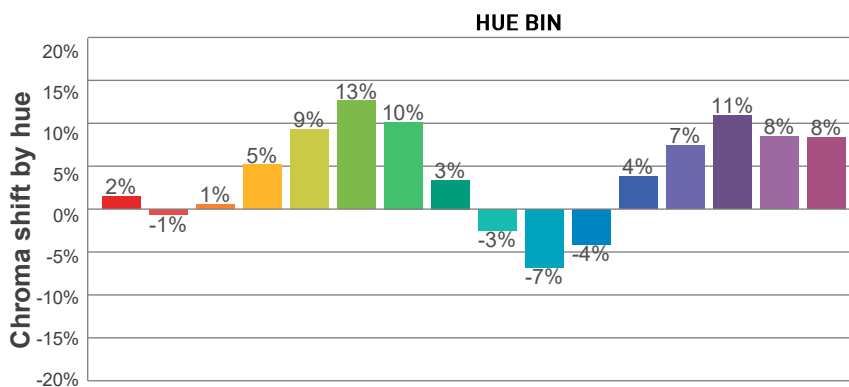
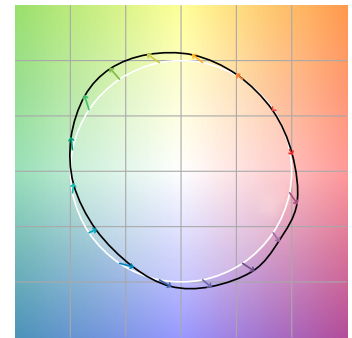
Rg 108.3

Gamut index Rg

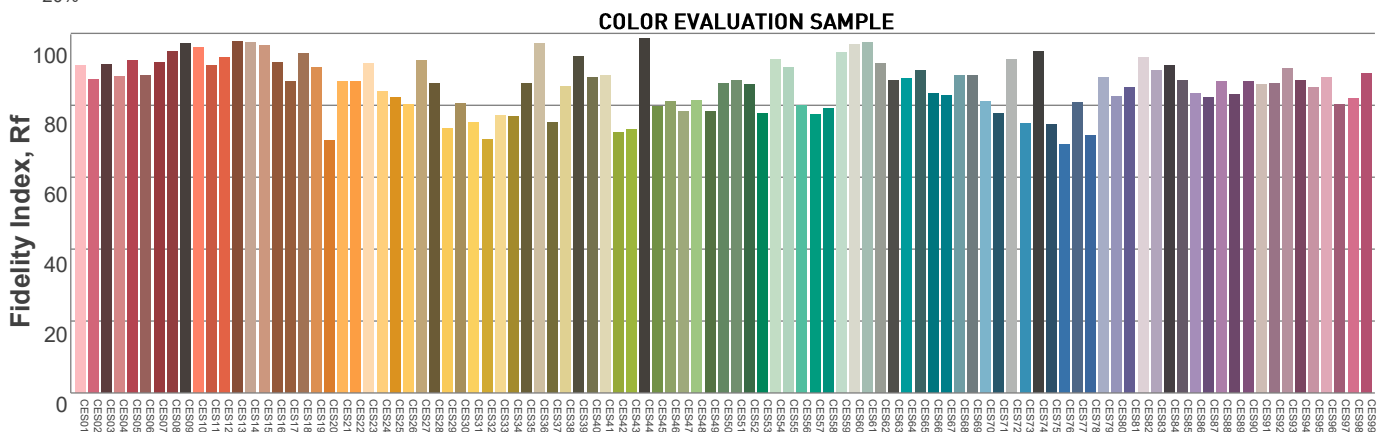
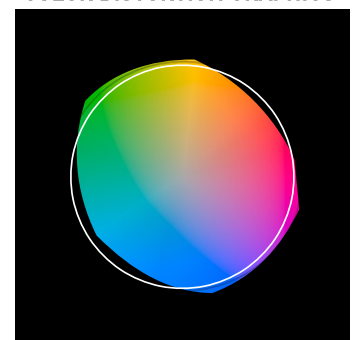
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	90	2%	-4%
2	95	-1%	0%
3	86	1%	7%
4	82	5%	10%
5	85	9%	9%
6	81	13%	2%
7	80	10%	-8%
8	84	3%	-10%
9	89	-3%	-7%
10	87	-7%	1%
11	82	-4%	12%
12	81	4%	11%
13	88	7%	6%
14	86	11%	5%
15	86	8%	-3%
16	86	8%	-8%



COLOR VECTOR GRAPHICS



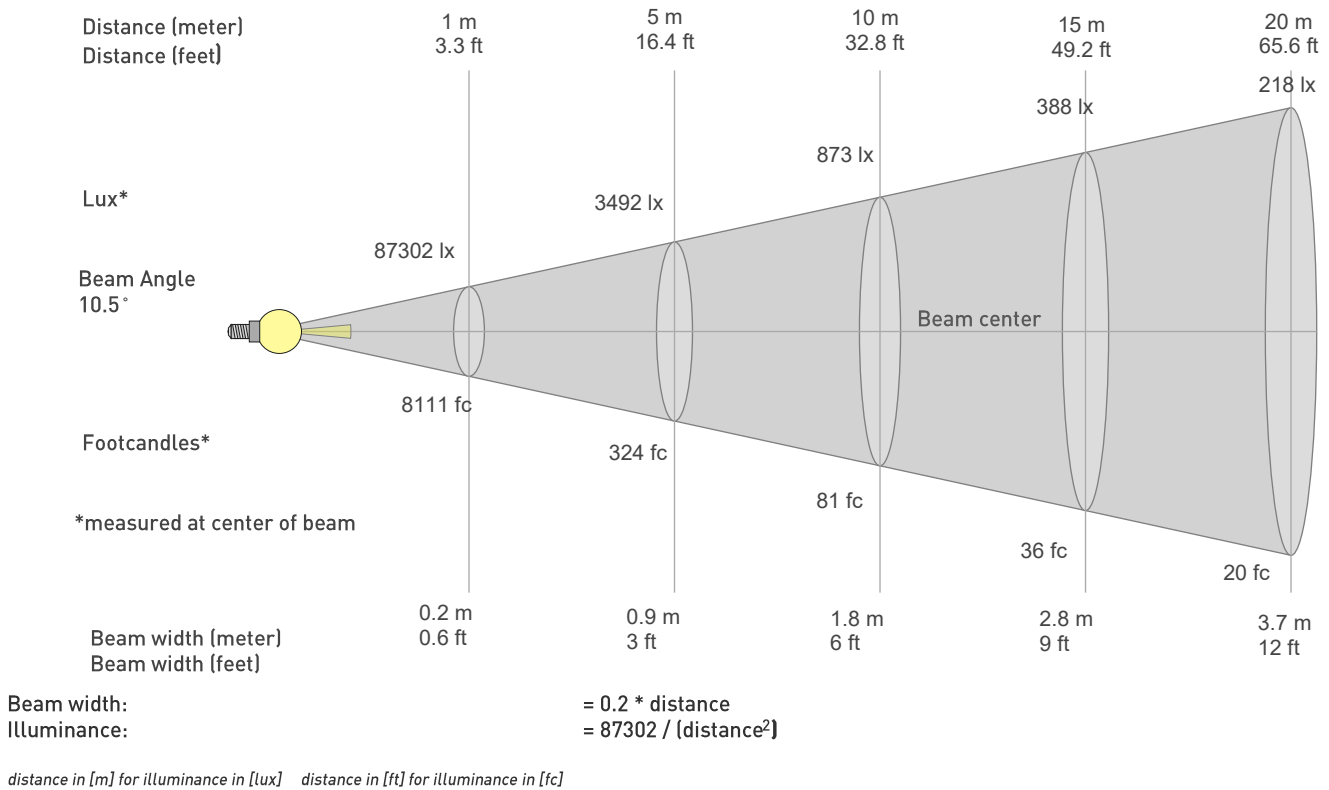
COLOR DISTORTION GRAPHICS



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BEAM DETAILS



BEAM ILLUMINANCE FROM 1-20M

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
87302lx	21826lx	9700lx	5456lx	3492lx	2425lx	1782lx	1364lx	1078lx	873lx	722lx	606lx	517lx	445lx	388lx	341lx	302lx	269lx	242lx	218lx
8110.7fc	2027.7fc	901.2fc	506.9fc	324.4fc	225.3fc	165.5fc	126.7fc	100.1fc	81.1fc	67fc	56.3fc	48fc	41.4fc	36fc	31.7fc	28.1fc	25fc	22.5fc	20.3fc

